

Application Serial No. 10/082,707
Amendment dated August 4, 2003
Reply to Office Action dated April 3, 2003

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (ORIGINAL) An inbred squash seed designated 833 wherein a sample of said seed has been deposited under ATCC Accession No. _____.
2. (ORIGINAL) A squash plant, or parts thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule or ovules of the plant of claim 2.
5. (ORIGINAL) A squash plant, or parts thereof, having all of the physiological and morphological characteristics of the squash plant of claim 2.
6. (CANCELED)
7. (CURRENTLY AMENDED) A tissue culture of regenerable cells of a squash plant of inbred 833, wherein the ~~tissue-regenerates-plants~~ cells produce a plant having ~~capable of expressing~~ all the morphological and physiological characteristics of inbred squash line 833, and wherein a sample of representative seeds having ~~has been~~ deposited under ATCC Accession No ____.
8. (CURRENTLY AMENDED) The tissue culture of claim 7, selected from the group consisting of ~~protoplast~~ protoplasts and calli, wherein the regenerable cells are derived from meristematic cells, leaves, pollen, embryos, roots, root tips, flowers, anthers, stems, petioles, fruits, seeds, cotyledons and hypocotyls.
9. (CURRENTLY AMENDED) A squash plant regenerated from the tissue culture of claim 7, ~~capable of expressing~~ having all the morphological and physiological characteristics of inbred squash line 833, representative seeds having been deposited under ATCC Accession No ____.
10. (ORIGINAL) A method for producing a hybrid squash seed comprising crossing a

first inbred parent squash plant with a second inbred parent squash plant and harvesting the resultant hybrid squash seed, wherein said first or second parent squash plant is the squash plant of claim 2.

11 - 33. (CANCELED)

34. (NEW) A method of producing a transgenic squash plant comprising transforming the squash plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group consisting of : herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, and male sterility.

35. (NEW) A transgenic squash plant produced by the method of claim 34.

36. (NEW) A method of producing an herbicide resistant squash plant comprising transforming the squash plant of claim 2 with a transgene that confers herbicide resistance.

37. (NEW) An herbicide resistant squash plant produced by the method of claim 36.

38. (NEW) A method of producing an insect resistant squash plant comprising transforming the squash plant of claim 2 with a transgene that confers insect resistance.

39. (NEW) An insect resistant squash plant produced by the method of claim 38.

40. (NEW) A method of producing a disease resistant squash plant comprising transforming the squash plant of claim 2 with a transgene that confers resistance to bacterial, fungal or viral disease.

41. (NEW) A disease resistant squash plant produced by the method of claim 40.

42. (NEW) A method of producing a male sterile squash plant comprising transforming the squash plant of claim 2 with a transgene that confers male sterility.

43. (NEW) A method for producing a single gene converted squash plant comprising backcrossing the squash plant of claim 2 with another squash plant wherein the single gene transferred into the squash plant of claim 2 confers a characteristics selected from the group consisting of : herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease and male sterility.

44. (NEW) A single gene converted squash plant produced by the method of claim 43.

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45. (NEW) A hybrid squash seed wherein fifty percent of its genetic material originates from the pollen of claim 3.
46. (NEW) A hybrid squash seed wherein fifty percent of its genetic material originates from the ovule of claim 4.